

Consequence Summary Report

Workspace: Linhas Etanol_10D

Study: Cenário 10 - Linha Enchimento

Summary Basis

These tables will only report global values set in the parameters. Values that are modified in the study tree will not be reported.

The report is context sensitive, and filters up to the study level. You will need to generate multiple summary reports if you have multiple studies in your workspace.

The results in this report are from the non-CFD calculations only.

Discharge Results (after atmospheric expansion)

Path	Scenario	Weather	Peak Flowrate [kg/s]	Temperature [degC]	Liquid mass fraction in material [fraction]	Droplet diameter [um]	Expanded diameter [m]	Velocity [m/s]	End time of release [s]
Cenário 10 - Linha Enchimento\Atmospheric storage tank	Linha de enchimento - 10% Rot - Horizontal	Category 3.5/D	0,418257	17,3942	1	1996,85	0,0078699	10,8482	3600
	Linha de enchimento - 10% Rot - Vertical	Category 3.5/D	0,418257	17,3942	1	1996,85	0,0078699	10,8482	3600

Dispersion Results

Input dispersion parameters

Core averaging time	18,75	s
Flammable averaging time	18,75	s
Toxic averaging time	600	s
Height of interest	0	m

Distance downwind to flammable concentrations

Path	Scenario	Weather	Distance to UFL [m]	Distance to LFL [m]	Distance to LFL fraction [m]
Cenário 10 - Linha Enchimento\Atmospheric storage tank	Linha de enchimento - 10% Rot - Vertical	Category 3.5/D	Not reached at height of interest	Not reached at height of interest	Not reached at height of interest

Jet Fire Results

Distance downwind to defined radiation levels

The reported radiations are defined in the parameters

Path	Scenario	Weather	Flame length [m]	Distance downwind to intensity level 1 (5 kW/m ²) [m]	Distance downwind to intensity level 2 (7 kW/m ²) [m]	Distance downwind to intensity level 3 (12,5 kW/m ²) [m]	Distance downwind to intensity level 4 (37,5 kW/m ²) [m]
Cenário 10 - Linha Enchimento\Atmospheric storage tank	Linha de enchimento - 10% Rot - Vertical	Category 3.5/D	3,71421	4,93078	4,24752	3,63718	0,500663



Early Pool Fire Results

Distance downwind to defined radiation levels

The reported radiations are defined in the parameters

Path	Scenario	Weather	Pool diameter [m]	Distance downwind to intensity level 1 (5 kW/m ²) [m]	Distance downwind to intensity level 2 (7 kW/m ²) [m]	Distance downwind to intensity level 3 (12,5 kW/m ²) [m]	Distance downwind to intensity level 4 (37,5 kW/m ²) [m]
Cenário 10 - Linha Enchimento\Atmospheric storage tank	Linha de enchimento - 10% Rot - Horizontal	Category 3.5/D	4,70406	10,5352	9,31362	7,50244	2,85884
	Linha de enchimento - 10% Rot - Vertical	Category 3.5/D	4,60758	14,6871	13,4904	11,7075	7,14796

Late Pool Fire Results

Distance downwind to defined radiation levels

The reported radiations are defined in the parameters

Path	Scenario	Weather	Pool diameter [m]	Distance downwind to intensity level 1 (5 kW/m ²) [m]	Distance downwind to intensity level 2 (7 kW/m ²) [m]	Distance downwind to intensity level 3 (12,5 kW/m ²) [m]	Distance downwind to intensity level 4 (37,5 kW/m ²) [m]
Cenário 10 - Linha Enchimento\Atmospheric storage tank	Linha de enchimento - 10% Rot - Horizontal	Category 3.5/D	10,5517	21,7859	19,1301	15,6064	6,27585
	Linha de enchimento - 10% Rot - Vertical	Category 3.5/D	10,3921	25,8353	23,2172	19,7395	10,5404

Flash Fire Results

Distance downwind to defined concentrations

The reported LFL and LFL fraction are defined in the respective material property

Path	Scenario	Weather	Distance downwind to LFL [m]	Distance downwind to LFL Fraction [m]
Cenário 10 - Linha Enchimento\Atmospheric storage tank	Linha de enchimento - 10% Rot - Horizontal	Category 3.5/D	0	0
	Linha de enchimento - 10% Rot - Vertical	Category 3.5/D		



Maximum distance to LFL fraction at any height

Path	Scenario	Weather	Max flash fire distance [m]	Height of the max flash fire distance [m]	Time [s]
Cenário 10 - Linha Enchimento\Atmospheric storage tank	Linha de enchimento - 10% Rot - Horizontal	Category 3.5/D			
	Linha de enchimento - 10% Rot - Vertical	Category 3.5/D	4,25824	1,62231	3550,05